



WO 00/50391

31 August 2000 (31.08.00)

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: C07C 311/21, 323/41, C07D 211/24, 311/20, 207/08, 277/06, 295/12, A61K 31/18, A61P 25/00			A1	(11) International Publication Number:	
				(4	(43) International Publication Date:
(21) International Application Number: PCT/US00/04560 (22) International Filing Date: 22 February 2000 (22.02.00)				(71) Applicants (for all designated Sto CO., INC. [US/US]; 126 Eas NJ 07065 (US). BRISTOL-M [US/US]; Route 206, Provin 08543, P.O. Box 4000 (US).	
(30) Priority Data: 60/121,906 60/122,746 60/122,748 60/130,994 60/130,995 (63) Related by Continu (CIP) to Earlied US Filed on US	r Applications 26 Febru 26 Febru 26 Febru 23 A	9 (26.02.99) 9 (26.02.99) 3.04.99) 3.04.99)	-Part -06 (Cl 26.02.9 48 (Cl 26.02.9 48 (Cl 26.02.9 94 (Cl 23.04.9	99) IP) IP) IP) IP) IP) IP)	(72) Inventors; and (75) Inventors/Applicants (for US of [US/US]; 29 Beckman Place, MUNOZ, Benito [CA/US]; 10' Diego, CA 92131 (US). SRIN Apartment #604, 5107 S. Blac 60615 (US). BERGSTROM, Mill Drive, Madison, CT 0644 Prasad, Y. [US/US]; 190 Lat 06410 (US). DESHPANDE, Devonshire Lane, Madison, Daniel, I. [US/US]; 286 Route (US). LAU, Wai, Yn. [-/US]; Main Street, Meriden, CT 064: F. [US/US]; 45 Brainard Hill (US). SLOAN, Charles, P. [Wallingford, CT 06492 (US) [IE/US]; 19 Lyle Madis Hour, Hol (CN) 1923, 827A
					(74) Agent: REITER, Stephen, E.; Gr

(71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065 (US). BRISTOL-MYERS SQUIBB COMPANY [US/US]; Route 206, Provinceline Road, Princeton, NJ 08543, P.O. Box 4000 (US).

- (75) Inventors/Applicants (for US only): SMITH, David, W. [US/US]; 29 Beckman Place, Madison, CT 06443 (US). MUNOZ, Benito [CA/US]; 10741 Frank Daniels Way, San Diego, CA 92131 (US). SRINIVASAN, Kumar [IN/US]; Apartment #604, 5107 S. Blackstone Avenue, Chicago, IL 60615 (US). BERGSTROM, Carl. P. [US/US]; 21 Paper Mill Drive, Madison, CT 06443 (US). CHATURYEDULA, Prasad, V. [US/US]; 190 Lancaster Way, Cheshire, CT 06410 (US). DESHPANDE, Milind, S. [US/US]; 18 Devonshire Lane, Madison, CT 06443 (US). KEAVY, Daniel, J. [US/US]; 286 Route 81, Killingworth, CT 06419 (US). LAU, Wai, Yu [-/US]; Apartment C20, 657 East Main Street, Meriden, CT 06450 (US). PARKER, Michael, F. [US/US]; 45 Brainard Hill Road, Higganum, CT 06441 (US). SLOAN, Charles, P. [CA/US]; 419 Ward Street, Wallingford, CT 06492 (US). WALLACE, Owen, B. [IE/US]; 19 Lyle Drive, Madison, CT 06443 (US). WANG, Henry, Hui [CN/US]; 837A Long Hill Road, Middletown, CT 06457 (US).
- (74) Agent: REITER, Stephen, E.; Gray Cary Ware & Freidenrich LLP, Suite 1600, 4365 Executive Drive, San Diego, CA 92121 (US).
- (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: NOVEL SULFONAMIDE COMPOUNDS AND USES THEREOF

(57) Abstract

ħ.j

In accordance with the present invention, there is provided a novel class of sulfonamide compounds. Compounds of the invention contain a core sulfonamide group. Variable moieties connected to the sulfur atom and nitrogen atom of the sulfonamide group include substituted or unsubstituted hydrocarbyl moieties, substituted or unsubstituted heterocycle moieties, polycyclic moieties, halogen, alkoxy, ether, ester, amide, sulfonyl, sulfonamidyl, sulfide, carbamate, and the like. Invention compounds are capable of a wide variety of uses. For example sulfonamide compounds can act to modulate production of amyloid β protein and are useful in the prevention or treatment of a variety of diseases. Pharmaceutical compositions containing invention compounds are also provided. Such compositions have wide utility for the prevention or treatment of a variety of diseases.